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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,327	03/06/2000	Upendra V. Chaudhari	YOR-2000-0006	8814

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FERENCE & ASSOCIATES
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EXAMINER

ARMSTRONG, ANGELA A

ART UNIT	PAPER NUMBER
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2654

DATE MAILED: 08/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/519,327

Applicant(s)

CHAUDHARI ET AL.

Examiner

Angela A. Armstrong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3-11 and 14-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3-11 and 14-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☒ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claims 3-6 and 14-17 is withdrawn in view of the newly discovered reference(s) to O'Shaughnessy. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U. S. C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U. S. C. 103 (c) and potential 35 U. S. C. 102(e), (f) or (g) prior art under 35 U. S. C. 103(a).

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4. Claims 3-11 and 14-23 are rejected under 35 U.S. C. 103(a) as being unpatentable over Picone et al (US Patent No. 5,293,452) in view of Setlur et al (US Patent No. 5,717,826) in further view of O'Shaughnessy (Speech Communication: Human and Machine, 1987).

5. As per claims 3-6, 14-17, and 23, Picone et al disclose an apparatus for verifying verbal utterances comprising:

a target password generator which generates at least one target password, (see col. 4, lines 43-51);

an acceptance arrangement, which compares a verbal utterance to at least one target password, (see col. 4, lines 58-62, and Fig. 1, item 30).

Picone et al fail to explicitly teach a system comprising an arrangement, which compares text based on a verbal utterance to at least one target password sentence. However, this feature is well known in the art.

In a similar field of endeavor, Setlur et al discloses a voice verification system comprising arrangement, which compares text based on a verbal utterance to at least one target password sentence (see col. 2, lines 64-66 and col.3, lines 4-8).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use Setlur et al teachings of acceptance/rejection arrangement in the Picone et al system, for the purpose of allowing for reliable and secure automatic access to restricted system such as remote databases while reducing verification error rate, as suggested by Setlur.

Picone fails to specifically teach the decoder being adapted to transform a verbal utterance into decoded text via employing the finite state grammar to modify the verbal

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utterance. However, transforming a verbal utterance into decoded text via employing the finite state grammar to modify the verbal utterance was well known in the art.

In a similar field of endeavor, at page 468-470, O'Shaughnessy teaches networks for speech recognition implementing dynamic programming, an acoustic analyzer to generate a segment string which is used by other systems to refine or modify the string until a text sentence is ready to be output.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the utterance verification system of Picone to implement the grammar network system as taught by O'Shaughnessy, for the purpose of providing efficient and accurate recognition and improved utterance verification.

As per claims 7 and 18, Picone et al disclose a system wherein said target password generator is adapted to accept prompted text corresponding to at least one password, (see col. 4, lines 36-51).

As per claims 8 and 19, Picone et al disclose a system wherein said target password generator is adapted to automatically generates at least one password as a baseform that is derived form an acoustic enrollment, (see col. 2, lines 9-10; col. 4, lines 36-51).

As per claims 9-11, 20-22, Picone et al disclose a system wherein said acceptance arrangement is adapted to derive a match score based on comparing... (see Fig. 1, "scores").

Response to Arguments

6. Applicant's arguments with respect to claims 3-11 and 14-23 have been considered but are moot in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 703-308-6258. The examiner can normally be reached on Monday-Thursday 7:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (703) 305-4379. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Angela A. Armstrong
Examiner
Art Unit 2654

AAA
May 22, 2003

Marsha D. Banks-Harold
SPE 2654